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PATENT
Attorney Docket No. BLS-006

2664
10-08-02

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Crosbie et al.
SERIAL NO.: 10/032,199 GROUP NO.: 2664
FILING DATE: 12/21/01 EXAMINER: Not yet assigned
TITLE: Methods and Systems for Clock Synchronization Across Wireless Networks

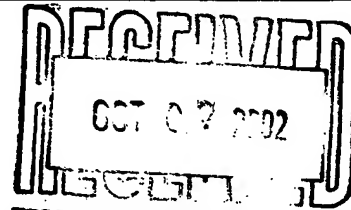
CERTIFICATE OF FIRST CLASS MAILING UNDER 37 C.F.R. 1.8

I hereby certify that this correspondence, and any document(s) referred to as enclosed herein, is/are being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents, Washington, DC 20231 on this 30th day of September, 2002.


Wendy Martin

Commissioner for Patents
Washington, D.C. 20231

Sir:



Submitted herewith is/are: Transmittal Form (1 page); Supplemental Information-----
Disclosure Statement (2 pages); Form 1449 (5 pages); Cited art; Return
receipt postcard.

VER 9/00
2496967



TRANSMITTAL FORM

Application Serial Number	10/032,199
Filing Date	12/21/01
First Named Inventor	Crosbie
Group Art Unit	2664
Examiner Name	Not yet assigned
Attorney Docket No.	BLS-006
Patent No.	Not applicable
Issue Date	Not applicable

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Check Attached <input type="checkbox"/> Copy of Fee Transmittal Form	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application (PTO-1553)	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences
<input type="checkbox"/> Amendment/Response <input type="checkbox"/> Preliminary <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Letter to Official Draftsperson including Drawings [Total Sheets ____]	<input type="checkbox"/> Formal Drawing(s)	<input type="checkbox"/> Appeal Brief (in triplicate)
<input type="checkbox"/> Petition for Extension of Time	<input type="checkbox"/> Request For Continued Examination (RCE) Transmittal	<input type="checkbox"/> Status Inquiry
<input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input checked="" type="checkbox"/> Form PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations	<input type="checkbox"/> Power of Attorney (Revocation of Prior Powers)	<input checked="" type="checkbox"/> Return Receipt Postcard
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8
<input type="checkbox"/> Sequence Listing submission <input type="checkbox"/> Paper Copy/CD <input type="checkbox"/> Computer Readable Copy <input type="checkbox"/> Statement verifying identity of above	<input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application	<input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8
	<input type="checkbox"/> Small Entity Statement	<input type="checkbox"/> Additional Enclosure(s) (please identify below)
	<input type="checkbox"/> CD(s) for large table or computer program	
	<input type="checkbox"/> Amendment After Allowance	
	<input type="checkbox"/> Request for Certificate of Correction <input type="checkbox"/> Certificate of Correction (in duplicate)	

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Respectfully submitted,

Date: SEPT. 30, 2002
Reg. No. 41,059
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Commissioner for Patents
Washington, D.C. 20231

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the patents and publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or

- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

Reference is also made to co-pending application Serial No. 10/055,028.

STATEMENT

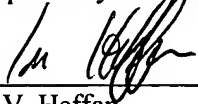
As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Date: *SEPT. 30, 2002*
Reg. No. 41,059

Tel. No.: (617) 248-7176
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Respectfully submitted,



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FORM PTO - 1449				ATTORNEY DOCKET NO.: BLS-006			
INFORMATION DISCLOSURE STATEMENT				APPLICANT(S): Crosbie et al.			
				SERIAL NO.: 10/032,199			
				FILING DATE: 12/21/01		GROUP: 2664	
U.S. PATENT DOCUMENTS							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	5,809,415 /	09/15/98	Rossmann	455	422	
	A2	5,987,062 /	11/16/99	Engwer et al.	375/225	375/227	
	A3	6,018,657 /	01/25/00	Kennedy, III et al.	455	426	
	A4	6,115,615 /	09/05/00	Ota et al.	455/553	455/552	
	A5	6,137,791 /	10/24/00	Frid et al.	370	352	
	A6	6,172,986 B1 /	01/09/01	Watanuki et al.	370/466	370/401	
	A7	6,195,705 B1 /	02/27/01	Leung	709/245	709/202	
	A8	2001/0001268 A1	05/17/01	Menon et al.	370	329	
	A9	6,243,581 B1 /	06/05/01	Jawanda	455/432	455/437	
	A10	2001/0012777 A1 /	08/09/01	Igarashi et al.	455/435	455/411	
	A11	2001/0014917 A1 ✓	08/16/01	Ishiyama et al.	709/227	709/220	
	A12	2001/0016492 A1 /	08/23/01	Igarashi et al.	455/433	709/217	
	A13	2001/0017856 A1 /	08/30/01	Asokan et al.	370/389	370/329	
	A14	2001/0020241 A1	09/06/01	Kawamoto et al.	707/202	709/229	
	A15	2001/0023446 A1	09/20/01	Balogh	709/229	709/227	
	A16	2001/0024443 A1	09/27/01	Alriksson et al.	370/401	370/329	
	A17	2001/0031634 A1 ✓	10/18/01	Mizutani et al.	455/425	455/550	
	A18	2001/0036224 A1	11/01/01	Demello et al.	375/220		
	A19	2001/0044305 A1 /	11/22/01	Reddy et al.	455/436	455/437	
	A20	2001/0048686 A1 /	12/06/01	Takeda et al.	370/401	370/338	
	A21	2002/0010758 A1 /	01/24/02	Chan	709/218	705/14	
	A22	2002/0013831 A1 /	01/31/02	Astala et al.	709/220	709/203	
	A23	2002/0032855 A1 /	03/14/02	Neves et al.	713/154	380/258	
EXAMINER				DATE CONSIDERED			

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U.S. PATENT DOCUMENTS							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A24	2002/0032858 A1 /	03/14/02	Nakano et al.	713/159	713/200	
	A25	2002/0034298 A1	03/21/02	Gallagher et al.	380/247	713/155	
	A26	2002/0034301 A1 /	03/21/02	Andersson	380/270		
	A27	2002/0035699 A1 /	03/21/02	Crosbie	713/201	713/153	
	A28	2002/0037708 A1 /	03/28/02	McCann et al.	455/411	455/408	
	A29	2002/0046179 A1 /	04/18/02	Kokudo	705/51		
	A30	2002/0046285 A1 /	04/18/02	Yasushi et al.	709/228	709/218	
	A31	6,377,548 B1 /	04/23/02	Chuah	370/233	370/234	
	A32	2002/0052965 A1 /	05/02/02	Dowling	709/230	709/203	
	A33	2002/0066029 A1 /	05/30/02	Yi	713/201		
	A34	2002/0066032 A1 /	05/30/02	Kurumida	713/201	713/202	
	A35	2002/0066036 A1 /	05/30/02	Makineni et al.	713/201		
	A36	2002/0069278 A1 /	06/06/02	Forslow	709/225	709/229	
	A37	2002/0073240 A1 /	06/13/02	Kokkinen et al.	709/249	709/250	
	A38	2002/0075844 A1 /	06/20/02	Hagen	370/351	370/328	
	A39	2002/0085719 A1 /	07/04/02	Crosbie			
	A40	2002/0087335 A1 /	07/04/02	Meyers et al.	705/1		
	A41	2002/0098840 A1 /	07/25/02	Hanson et al.	455/435	455/432	
	A42	2002/0101848 A1 /	08/01/02	Lee et al.	370/349	370/352	
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EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B1	EP 1 011 243 A1	21/06/00	EP	29/06	12/56			
	B2	WO 00/36522	22/06/00	PCT	15/16	15/173			
	B3	WO 01/50781 A2	12/07/01	PCT	7/00				
	B4	WO 02/09458 A2	31/01/02	PCT	7/00				
	B5	WO 02/41587 A2	23/05/02	PCT	12/28	12/56			Y
	B6	PCT/US02/08986		PCT			21/03/02		Y
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	C1	Berger, S., et al., "Pervasive Networking Using Bluetooth: A Status Report and Future Plans," <i>Presentation Slides and Paper</i> (21 pgs.); IBM Watson Research Center (1999).							
	C2	Bluetooth Specification Version 1.1, <i>Part K:9: Lan Access Profile: 275-308</i> (2001).							
	C3	"PSDN Solution for CDMA2000 Networks," (2 pgs.) [online], [Retrieved on 1/25/02]. <i>Retrieved from the Internet: <URL:http://www.cisco.com/warp/public/779/servpro/solutions/wireless_mobile/pdsn.html>.</i>							
	C4	Cisco White Paper, "Cisco Code-Division Multiple Access Performance Management", (15 pgs.) [online], [Retrieved on 1/25/02]. <i>Retrieved from the Internet: <URL:http://www.cisco.com/warp/public/779/servpro/solutions/wireless_mobile/pdsn.html>.</i>							
	C5	ETSI HIPERLAN/2 standard [online], September 2000, (3 pgs.) [online], [Retrieved on 7/16/01]. <i>Retrieved from the Internet: <URL:http://www.etsi.org/technicalactiv/hiperlan2.htm>.</i>							
	C6	Haartsen, J., "Bluetooth-The universal radio interface for <i>ad hoc</i> , wireless connectivity", <i>Ericsson Review No. 3</i> , pgs. 110-117, 1998, XP000783249 ISSN: 0014-0171							
EXAMINER					DATE CONSIDERED				

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FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	C7	Lough et al., "A Short Tutorial on Wireless LANs and IEEE 802.11", (5 pgs.) [online], [Retrieved on 10/16/01]. Retrieved from the Internet: <URL: http://www.computer.org/students/looking/summer97/ieee802.htm >.							
	C8	Mitzel, D., "Overview of 2000 IAB Wireless Internetworking Workshop", (40 pgs.) [online], December, 2000 [Retrieved on 01/25/02]. Retrieved from the Internet: <URL: http://www.ietf.org/rfc/rfc3002.txt?number=3002 >.							
	C9	T. Muller, "Bluetooth White Paper", <i>Bluetooth Security Architecture Version 1.0</i> : 1-33 (1999)							
	C10	Perkins, C., "IP Mobility Support", (67 pgs.) [online], October, 1996 [Retrieved on 09/16/02]. Retrieved from the Internet: <URL: http://www.ietf.org/rfc/rfc2002.txt?number=2002 >.							
	C11	"A Practical Approach to Identifying and Tracking Unauthorized 802.11 Cards and Access Points", (26 pgs.) [online], [Retrieved on 09/10/01]. Retrieved from the Internet: <URL: http://www.interlinknetworks.com/graphics/news/wireless_detection_and_tracking.pdf >.							
	C12	"RoamAD" (6 pgs.) [online], [Retrieved on 9/16/02]. Retrieved from the Internet: <URL: http://www.roamad.com/roam >.							
	C13	R. Schneiderman, "Bluetooth's slow dawn: Hype gives way to hard work as expectations for the mini radio network encounter nettlesome interoperability issues," <i>IEEE Spectrum</i> : 61-65 (2000).							
EXAMINER				DATE CONSIDERED					



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SHEET 5 OF 5

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OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	C14	Solomon, J., "Applicability Statement for IP Mobility Support", (5 pgs.) [online], October, 1996 [Retrieved on 01/25/02]. Retrieved from the Internet: <URL: http://www.ietf.org/rfc/rfc2005.txt?number=2005 >.							
	C15	Townesley, W., et al., "Layer Two Tunneling Protocol 'L2TP,'" [online], August, 1999 [Retrieved on 08/29/01]. Retrieved from the Internet: <URL: http://www.ietf.org/rfc/rfc2661.txt?number=2661 >.							
	C16	Vernier Networks Whitepaper, "Controlling the Network Edge: Vernier Networks and the Enterprise", (7 pgs.) [online], June, 2002 [Retrieve on 9/10/02]. Retrieved from the Internet: <URL: www.verniernetworks.com >.							
	C17	Vernier Networks Whitepaper, "High Availability for Wireless Edge Connectivity", (6 pgs.) [online], June, 2002 [Retrieve on 9/10/02]. Retrieved from the Internet: <URL: www.verniernetworks.com >.							
	C18	Vernier Networks Whitepaper, "The Vernier Networks System", (7 pgs.) [online], [Retrieve on 9/10/02]. Retrieved from the Internet: <URL: www.verniernetworks.com >.							
	C19	Vernier Networks Whitepaper, "The Three Phases of WLAN Deployments", (2 pgs.) [online], June, 2002 [Retrieve on 9/10/02]. Retrieved from the Internet: <URL: www.verniernetworks.com >.							
	C20	Vernier Networks Whitepaper, "Vernier Networks: Ensuring the Promise of 802.11b Networks", (5 pgs.) [online], June, 2002 [Retrieve on 9/10/02]. Retrieved from the Internet: <URL: www.verniernetworks.com >.							
	C21	Vernier Networks Whitepaper, "Wireless Security: Protecting Your 802.11 Network", (3 pgs.) [online], June, 2002 [Retrieve on 9/10/02]. Retrieved from the Internet: <URL: www.verniernetworks.com >.							
	C22	International Search Report for International Application No: PCT/US01/23145, dated 16 August, 2002							
	C23	International Search Report for International Application No: PCT/US02/08986, dated 19 August, 2002							
EXAMINER				DATE CONSIDERED					